Friday, 11/04/2008 9:02:02 AM User: Julie Lecoca **Process Sheet** Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** : TUBE ASSEMBLY Job Number : 38553 **Estimate Number** : 10925 P.O. Number **Part Number** : D2003105 : 11/04/2008 S.O. No. : : UNDER REVIEW This Issue **Drawing Number** Prsht Rev. : NC : N/A **Project Number** : B : // First Issue Type : SMALL /MED FAB **Drawing Revision** : 27298 **Previous Run** Material **Due Date** : 21/04/2008 6 Um: Each Written By Checked & Approved By Comment 00.01.12 Re-format EC **Additional Product** Job Number: Seq. #: **Machine Or Operation:** Description: 1.0 DC DOCUMENT CONTROL Comment: DOCUMENT CONTROL Photocopy bluefile & type labels per PPP D2003-105 M304TR0375W035 2.0 304 TUBING Comment: Qty.: Total: 0.9275 f(s)/Unit 5.5648 f(s) 304 TUBING Material:3/8"Æ x 0.035" wall 3.0 Firesleeve-crkl .375IDia Comment: Qty.: Total: 5:6435 f(s) 0.9406 f(s)/Unit Material: M2650-6 Heat sleeve 4.0 MS208196D Comment: Qty.: 2.0000 Each(s)/Unit Total: 12.0000 Each(s) Sleeve Pick: **Qty Part Number** Description 2 MS20819₂80 Sleeve FF 08-04-17 60 AN8186D Comment: Qty.: 2.0000 Each(s)/Unit Total: 12.0000 Each(s) Nut **Qty Part Number** Description Batch

Page 1

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W/O:		WORK ORDER CHANGES												
DATE	STEP	(3)	PRO	CEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No:		PA	R #:	Fault Category:		NCR	: Yes	No DQ	A:	_ Date: _				
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)												
		Description of NC		Corrective Action Section B		Verification	Annroval	Annroyal						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector						
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NOTE: Date & initial all entries

Friday, 11/04/2008 9:02:03 AM Date: User: Julie Lecocq **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: TUBE ASSEMBLY Job Number: 38553 Part Number: D2003105 Job Number: Seq. #: **Machine Or Operation: Description:** M103 154 2 AN818-6D Nut M FF 08-04-17 D2182 6.0 Heat Shrink Comment: Qty.: 0.3750 f(s)/Unit Total: 2.2500 f(s) **Heat Shrink** 12.000 Pick: **Qty Part Number** Description Batch FF 08-04-17 1 D2182-045 Heat shrink SMALL FAB 1 SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Cut as per template D2003-105 (10.60" long) CONFIRM OUT LEUGHT 16.3/1 Cut: 10.75" long as per Dwg D2003 WITH EWG. Form tube as per template D2003-105 Assemble as per Dwg D2003 8.0 QC5 INSPECT WORK TO CURRENT STÈP Comment: INSPECT WORK TO CURRENT STEP 9.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 10.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES													
DATE	STEP		PROCEDURE CHANG	SE .	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
			,												

Part No:	PAR #:	_ Fault Category:	NCR: Yes No DQA:	Date:
			QA: N/C Closed:	Date:

	WORK ORDER NON-CONFORMANCE (NCR)											
	Description of NC		Corrective Action Section B	Varification	A							
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector					
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NOTE: Date & initial all entries





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	99.0	6.08		206 CABIN HEATER TUBE ASSEMBLIES NTS							
	Α		90.04.09	NEW ISSUE							
	В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)							

RELEASE D

CC.08.21 CB I conthy wrong

08.04.11

P/N	TEMPLATE	HEATSLEEVE LENGTH	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC	MATERIAL ⁴⁶⁷⁷	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	VW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63	_				2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33,31	32.38					- 2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18.00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	_ 2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25]			1	1	JET:	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	/12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125	l		2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0								HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120 /	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14 /	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16/	4.0								HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-207	T2003-207	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	
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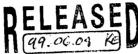
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WORK ORDER





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	99.06.08		206 CABIN HEATER TUB	E ASSEMBLIES NTS						







Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

